

# Tecnologías, ambientes de desarrollo y mercados

Contexto actual

# Sistemas Operativos



**Android 13**



**iOS 15**

**iOS 15 iPadOS 15**

**tvOS 15**

**watchOS 8**

# Sistemas Operativos

Year	2018	2019	2020	2021	2022	2023	2024
Android	85.1%	86.1%	85.0%	85.6%	86.0%	86.1%	86.2%
iOS	14.9%	13.9%	15.5%	14.4%	14.0%	13.9%	13.8%
Others	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

<https://www.idc.com/promo/smartphone-market-share/os>

# Sistemas Operativos

## Android Versions

Platform Version	 <input checked="" type="checkbox"/> Share 
Android 9.0	31.31%
Android 10.0	15.68%
Android 8.1	13.72%
Android 8.0	7.63%
Android 7.0	7.01%
Android 6.0	7.00%
Android 7.1	4.68%
Android	4.64%
Android 5.1	3.78%
Android 4.2	1.85%

# Sistemas Operativos

## iOS Versions

Platform Version	<input checked="" type="checkbox"/> Share
iOS 13.3	31.85%
iOS 12.4	14.22%
iOS 13.1	11.71%
Mac OS X 0.12	11.15%
iOS 13.4	9.42%
	4.22%
iOS 13.2	3.33%
iOS 12.3	2.57%
iOS 13.5	2.36%
iOS 12.1	1.70%



# Marcas y SO



**Hardware Apple propio  
únicamente**

**iPhone  
iPad**

**AppleTv  
AppleWatch  
HomePod**

# Lenguajes de programación y herramientas nativas



**Java**



**Xcode**

**Swift, objective C**



**Xamarin**

**C#**

# Lenguajes de programación y herramientas híbridas



**Flutter**



**React Native**



**ionic**



**Framework7**



**PhoneGap**

**Java Script**

**HTML 5**

**CSS**



# NATIVE APPS



# VS



# HYBRID APPS

## PROS

- Can function in offline mode
- Total Device integration (GPS, camera, calendar, push notifications, contacts)
- Can be downloaded from app stores (Google Play, App store, Windows store)
- Superior UX
- Smooth Functionality

## CONS

- Requires more effort
- Require more developers
- High priced development
- Low code reusability
- Upgrade Inflexibility

## PROS

- Faster development
- Flexible to upgrades
- Suitable for BYOD programs / Device friendly
- Low development cost

## CONS

- Unimpressive UX
- Low efficiency
- Uneven navigation functionality
- Needs internet connectivity to operate